



December 31, 2003

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ATTORNEY DOCKET NO.: MMI1150

Mail Stop PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

22154 U.S. PTO
10/750622



Sir:

Transmitted herewith for filing is the new provisional-to-utility conversion patent application of:

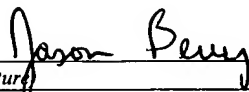
APPLICANTS : Sue K. DeNise, Paul Charteris, David Rosenfeld, Tom Holm and Stephen Bates

TITLE : COMPOSITIONS, METHODS AND SYSTEMS FOR INFERRING BOVINE BREED

Enclosed are the following papers, including all those required to receive a filing date under 37 CFR § 1.53(b):

Number of Pages

Cover Sheet	1
Specification	49
Claims	8
Abstract	1
Declaration – (Unsigned)	4
Drawing Sheets – (Formal)	0

CERTIFICATION UNDER 37 CFR §1.10 "EXPRESS MAIL" Mailing Label Number: EV 318 740 345 US Date of Deposit: December 31, 2003	
I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to: Mail Stop CONVERSION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
JASON BERRY (Name of Person Mailing Paper)	
 (Signature)	December 31, 2003 (Date)

SILICON VALLEY SAN DIEGO SAN FRANCISCO AUSTIN SEATTLE SACRAMENTO LA JOLLA WASHINGTON, DC

This request includes Three (3) sheets and the following:

- Application Data Sheet (4 pages);
- Statement Under 37 CFR 1.821(f) (1 page)
- Statement Under 37 CFR 1.821(f) and (g)
- Two (2) CFR disks for Sequence Listing (includes duplicate)
- Two (2) CFR disks for Tables (includes duplicate); and
- Return Receipt Postcard.

This application is a provisional-to-utility application and claims the benefit under 35 USC § 119(e) of U.S. Application Serial Nos. 60/437,482 filed December 31, 2002. The disclosure of the prior application is considered part of and is incorporated by reference in the disclosure of this application.

The filing fee has been calculated as shown below: **SMALL ENTITY** status is claimed.

	Number Filed		Number Extra		Rate		Fee	
					Small Entity	Large Entity	Small Entity	Large Entity
Total Claims	55-20	=	35		\$09	\$18	=	\$315.00
Independent Claims	10-3	=	7		\$43	\$86	=	\$301.00
Multiple Dependent Claims Presented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					\$145	\$290		\$00
					BASIC FILING FEE		\$385.00	\$770.00
					SURCHARGE FEE		\$ 65.00	\$130.00
					TOTAL FEE		\$1066.00	

PLEASE DEFER THE PAYMENT OF THE FILING FEE until the executed Declaration is filed. Please apply any other required fees or any credits to Deposit Account No. 50-1355, referencing the attorney docket number shown above.

If this application is found to be INCOMPLETE, or if a telephone conference would otherwise be helpful, please call the undersigned at (858) 677-1456.

GRAY CARY WARE & FREIDENRICH LLP
ATTORNEY DOCKET NO.: MMI1150
Mail Stop PATENT APPLICATION
December 31, 2003
Page 3

All future correspondence should be addressed to:

Lisa A. Haile, J.D., Ph.D.
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Telephone: (858) 677-1456
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A duplicate copy of this letter is enclosed. Kindly acknowledge receipt of this application by returning the enclosed postcard.

Respectfully submitted,

GRAY CARY WARE & FREIDENRICH LLP

December 31, 2003

Date



Lisa A. Haile, J.D., Ph.D.

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USPTO CUSTOMER NUMBER 28213

LAH/EJV:ag
Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: DeNise, *et al.* Art Unit: Unknown
Application No.: To be assigned Examiner: Unknown
Filed: Herewith
Title: COMPOSITIONS, METHODS, AND SYSTEMS FOR INFERRING
BOVINE BREED

Mail Stop PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

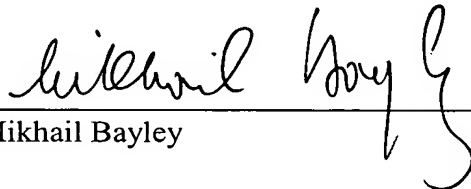
VERIFIED STATEMENT UNDER 37 C.F.R. § 1.821(f)

Sir:


I, Mikhail Bayley, declare that I personally prepared the CD copies of the Sequence Listing filed herewith in the above-entitled case and that the content of both is the same.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of The United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: December 31, 2003


Mikhail Bayley

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Customer Number: 28213

CERTIFICATE OF MAILING BY "EXPRESS MAIL"	
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I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO MAIL STOP PATENT APPLICATION, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.	
<u>JASON BERRY</u> (TYPED OR PRINTED NAME OF PERSON MAILING PAPER)	 (SIGNATURE OF PERSON MAILING PAPER OR FEE)